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1990 MONTANA COMMERCIAL FERTILIZER REPORT

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Montana Department of Agriculture
Plant Industry Division
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Field Inspectors

Warren Anderson
Department of Agriculture
Box 1397
821 17th Street North
Great Falls, Montana 59403
(406) 452-9561

Karen Olstad
Department of Agriculture
321 South 24th Street West
Billings, Montana 59102
(406) 652-3615

Robyn L. Cassel
Department of Agriculture
Box 495
Saco, Montana 59261
(406) 527-3366

Donald L. Simmons
Department of Agriculture
607 S.W. Higgins
Missoula, Montana 59801
(406) 549-9678

Andy Drange
Department of Agriculture
321 South 24th Street West
Billings, Montana 59102
(406) 652-3615

Thomas Lawrence
Box 334
(406) 837-4545
Bigfork, Montana 59911

Daniel E. Poff
P.O. Box 95
Thompson Falls, MT 59873
(406) 827-3728

Velda Baltrusch
HC 66 Box 6075
Glendive, MT 59330
(406) 365-6306

Helena Office Address

Department of Agriculture
Ag/Livestock Building
Capitol Station
Helena, Montana 59620
(406) 444-3730

Helena Personnel

O.R. Bjornson, Administrator
Will Kissinger, Bureau Chief
David Taylor, Bureau Chief
Ed Greenwood, Warehouse Examiner
Bob Anderson, Feed Specialist
Sandy Copenhaver, Secretary
Michelle Wheat, Secretary
Carol Kimble, Adm. Assistant

Feed & Fertilizer Lab Address

Environmental Management Div.
McCall Hall - MSU
Bozeman, Montana 59717
(406) 994-3383

F&F Lab Personnel

Laszlo Torma, Lab Bureau Chief
Bill Wheeler, Lab Technician

This report consists of the following sections:

Fertilizer Analyses. . . . . Pages 1 - 25

Statistical. . . . . Pages 26 - 29

Abbreviations Used:

Phosphate Denotes P_2O_5 . . . . .Available Phosphoric Acid

Potash Denotes K_2O . . . . . Soluble Potash

ppm . . . . . Parts Per Million

* . . . . . .Deficiency

MANUFACTURER

AGRI BASICS CO
P.O.BOX 112
BELGRADE,MT 59714

BLENDED FERTILIZER — SAMPLED IN BELGRADE — SAMPLE # 3806

ANALYSIS	CLAIMED	FOUND	
NITROGEN	28%	29.6%	
PHOSPHATE	14%	13.5%	

MANUFACTURER

AGRI BASICS CO
1420 MINNESOTA AVE
BILLINGS,MT 59101

BLENDED FERTILIZER — SAMPLED IN RAPELJE — SAMPLE # 3864

ANALYSIS	CLAIMED	FOUND	
NITROGEN	20.	16.6	*
PHOSPHORUS	25.0	20.5	
POTASH	10.0	6.7	*
SULPHUR	10.0	10.0	

LAWN & GARDEN FERTILIZER — SAMPLED IN BILLINGS — SAMPLE # 3853

ANALYSIS	CLAIMED	FOUND	
NITROGEN	17%	17.0%	
PHOSPHATE	17%	15.7%	*
POTASH	17%	19.2%	

LAWN & GARDEN FERTILIZER — SAMPLED IN BILLINGS — SAMPLE # 3854

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.6%
PHOSPHATE	20%	20.6%
SULFUR	14%	15.5%

BLENDED FERTILIZER — SAMPLED IN HARDIN — SAMPLE # 3802

ANALYSIS	CLAIMED	FOUND
NITROGEN	27.1	27.6
PHOSPHORUS	19.9	19.4

MANUFACTURER

AGRI BASICS CO
P.O.BOX 1431
GREAT FALLS,MT 59403

BLENDED FERTILIZER — SAMPLED IN GREAT FALLS — SAMPLE # 3974

ANALYSIS	CLAIMED	FOUND	
NITROGEN	23.9%	24.0%	
PHOSPHATE	3%	2.8%	
POTASH	8.5%	9.9%	
SULFUR	6.8%	7.1%	

MANUFACTURER

AGRI BASICS CO
P.O.BOX 1279
MILES CITY,MT 59301

BLENDED FERTILIZER — SAMPLED IN MILES CITY — SAMPLE # 4504

ANALYSIS	CLAIMED	FOUND
NITROGEN	40%	39.2%
PHOSPHORUS	4%	5.1%
SULFUR	3%	3.6%

LAWN & GARDEN FERTILIZER — SAMPLED IN MILES CITY — SAMPLE # 4396

ANALYSIS	CLAIMED	FOUND
NITROGEN	15%	16.9%
PHOSPHATE	15%	18.5%
POTASH	5%	5.8%

MANUFACTURER

AGRI BASICS CO

RYEGATE,MT 59074

BLENDED FERTILIZER — SAMPLED IN RYEGATE — SAMPLE # 3866

ANALYSIS	CLAIMED	FOUND
NITROGEN	23.6%	23.0%
PHOSPHATE	23.5%	26.5%

MANUFACTURER

AGRI BASICS CO
903 EAST MAIN
SIDNEY,MT 59270

BLENDED FERTILIZER — SAMPLED IN SIDNEY — SAMPLE # 4388

ANALYSIS	CLAIMED	FOUND	
NITROGEN	22.5%	20.5%	*
PHOSPHATE	28%	28.9%	
POTASH	13.5%	9.8%	*

AGRI BASICS CO - SIDNEY CONTINUED

BLENDED FERTILIZER — SAMPLED IN SIDNEY — SAMPLE # 4395

ANALYSIS	CLAIMED	FOUND	
NITROGEN	30%	27.9%	*
PHOSPHATE	15%	12.7%	*
POTASH	5%	12.0%	

MANUFACTURER

CANADIAN FERTILIZERS LTD
1250 52nd ST N.W.
MEDICINE HAT,ALBT
CANADA

UREA — SAMPLED IN WOLF POINT — SAMPLE # 1788

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	45.9%

UREA — SAMPLED IN CHINOOK — SAMPLE # 4412

ANALYSIS	CLAIMED	FOUND
NITROGEN	46	46.3

MANUFACTURER

CARGILL, INC
P.O.BOX 5602
MINNEAPOLIS,MN 55440

GARDENIER MONOAMMONIUM PHOSPHATE — SAMPLED IN VALIER — SAMPLE # 3923

ANALYSIS	CLAIMED	FOUND
NITROGEN	10%	11.0%
PHOSPHATE	50%	50.3%

MANUFACTURER

CEMEX LTD.
55 4th AVE. E.N.
KALISPELL,MT 59901

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4320

ANALYSIS	CLAIMED	FOUND
NITROGEN	30.9%	31.3%
SULFUR	2%	1.9%
BORON	0.8%	0.68%

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4342

ANALYSIS	CLAIMED	FOUND
NITROGEN	25.5%	25.8%
PHOSPHATE	10.4%	11.5%
SULFUR	7.2%	6.4%

CENEX LTD. - KALISPELL CONTINUED

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4348

ANALYSIS	CLAIMED	FOUND	
NITROGEN	10.7%	11.2%	
PHOSPHATE	17.3%	17.1%	
POTASH	20%	18.7%	*
SULFUR	8%	9.4%	

MANUFACTURER

CENEX LTD/dba CENEX FARM & HOM
1408 HIGHWAY 93 SOUTH
RONAN,MT 59864

BLENDED FERTILIZER — SAMPLED IN RONAN — SAMPLE # 4337

ANALYSIS	CLAIMED	FOUND	
NITROGEN	7%	6.2%	*
POTASH	39%	39.6%	
SULFUR	8%	7%	*
BORON	0.2%	0.18%	

MANUFACTURER

CENEX SUPPLY
P.O.BOX 1440
MILES CITY,MT 59301

BLENDED FERTILIZER — SAMPLED IN MILES CITY — SAMPLE # 4506

ANALYSIS	CLAIMED	FOUND	
NITROGEN	28.6%	26.5%	*
PHOSPHATE	28.6%	30.1%	

MANUFACTURER

CENEX/ LAND O'LAKES AGRONOMY
P.O.BOX 64089
ST. PAUL,MN 55164

AMMONIUM NITRATE — SAMPLED IN BILLINGS — SAMPLE # 3613

ANALYSIS	CLAIMED	FOUND
NITROGEN	34	34.3

AMMONIUM SULFATE — SAMPLED IN POWER — SAMPLE # 3973

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	21.0%
SULFUR	24%	24.7%

AMMONIUM SULFATE — SAMPLED IN TERRY — SAMPLE # 4352

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	20.9%
SULFUR	24%	24.5%

CFI UREA — SAMPLED IN GLASGOW — SAMPLE # 4061

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.0%

CFI UREA — SAMPLED IN CHINOOK — SAMPLE # 4080

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.3%

CFI UREA — SAMPLED IN SAVAGE — SAMPLE # 4390

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.1%

CFI UREA — SAMPLED IN BAKER — SAMPLE # 4391

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.1%

CHEVRON AMMONIUM NITRATE — SAMPLED IN KALISPELL — SAMPLE # 4321

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	33.9%

CHEVRON MONOAMMONIUM PHOSPHATE — SAMPLED IN KALISPELL — SAMPLE # 4322

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.4%
PHOSPHATE	52%	52.3%

CHEVRON MONOAMMONIUM PHOSPHATE — SAMPLED IN GLENDIVE — SAMPLE # 4374

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	52.2%

CHEVRON MONOAMMONIUM PHOSPHATE — SAMPLED IN CHINOOK — SAMPLE # 4413

ANALYSIS	CLAIMED	FOUND
NITROGEN	11.0	11.3
PHOSPHORUS	52.0	52.2

CENEX/ LAND O'LAKES AGRONOMY - ST. PAUL CONTINUED

DIAMMONIUM PHOSPHATE — SAMPLED IN BROADUS — SAMPLE # 4368

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	46.5%

EXXON AMMONIUM SULFATE — SAMPLED IN GLASGOW — SAMPLE # 4062

ANALYSIS	CLAIMED	FOUND
NITROGEN	20.5%	20.4%
SULFUR	24%	24.5%

EXXON AMMONIUM SULFATE — SAMPLED IN PEERLESS — SAMPLE # 4432

ANALYSIS	CLAIMED	FOUND
NITROGEN	20.5	20.5
SULPHUR	24.0	24.7

KALIUM POTASH — SAMPLED IN CIRCLE — SAMPLE # 4385

ANALYSIS	CLAIMED	FOUND
POTASH	62%	61.3%

MONOAMMONIUM PHOSPHATE — SAMPLED IN POWER — SAMPLE # 3972

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.2%
PHOSPHATE	52%	51.9%

NU-WEST DIAMMONIUM PHOSPHATE — SAMPLED IN CHINOOK — SAMPLE # 4079

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.4%
PHOSPHATE	46%	46.2%

NU-WEST MONOAMMONIUM PHOSPHATE — SAMPLED IN MILES CITY — SAMPLE # 4372

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.1%
PHOSPHATE	52%	52.5%

POTASH — SAMPLED IN POWER — SAMPLE # 3970

ANALYSIS	CLAIMED	FOUND
POTASH	62%	62.0%

POTASH — SAMPLED IN KALISPELL — SAMPLE # 4005

ANALYSIS	CLAIMED	FOUND
POTASH	60%	60.1%

CENEX/ LAND O'LAKES AGRONOMY - ST. PAUL CONTINUED

SIMPLOT MONOAMMONIUM PHOSPHATE — SAMPLED IN GREAT FALLS — SAMPLE # 3976

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.4%
PHOSPHATE	52%	53.3%

UREA — SAMPLED IN POWER — SAMPLE # 3971

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.0%

MANUFACTURER

CHEVRON CHEM CO; CONSUMER PROD
15049 SAN PABLO AVE
RICHMOND,CA 94804

ORTHO EVERGREEN TREE & SHRUB FOOD — SAMPLED IN MONTANA — SAMPLE # 3857

ANALYSIS	CLAIMED	FOUND
NITROGEN	14%	14.4%
PHOSPHATE	7%	7.5%
POTASH	7%	7.1%

MANUFACTURER

CHEVRON CHEM- FERTILIZER DIV
P.O.BOX 5047
SAN RAMON,CA 94583

AMMONIUM NITRATE — SAMPLED IN BELGRADE — SAMPLE # 3204

ANALYSIS	CLAIMED	FOUND
NITROGEN	34.0	34.0

AMMONIUM NITRATE — SAMPLED IN KALISPELL — SAMPLE # 4002

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.0%

DIAMMONIUM PHOSPHATE — SAMPLED IN CHOTEAU — SAMPLE # 3951

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	46.6%

DIAMMONIUM PHOSPHATE — SAMPLED IN FAIRFIELD — SAMPLE # 3953

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	46.4%

CHEVRON CHEM- FERTILIZER DIV - SAN RAMON CONTINUED

DIAMMONIUM PHOSPHATE — SAMPLED IN GERALDINE — SAMPLE # 3962

ANALYSIS	CLAIMED	FOUND	
NITROGEN	18.0	18.0	
PHOSPHORUS	46.0	46.7	

DIAMMONIUM PHOSPHATE — SAMPLED IN RICHEY — SAMPLE # 4392

ANALYSIS	CLAIMED	FOUND	
NITROGEN	18%	18.0%	
PHOSPHATE	46%	46.3%	

MONOAMMONIUM PHOSPHATE — SAMPLED IN CONRAD — SAMPLE # 3946

ANALYSIS	CLAIMED	FOUND	
NITROGEN	11%	11.4%	
PHOSPHATE	52%	52.0%	

MONOAMMONIUM PHOSPHATE — SAMPLED IN FAIRFIELD — SAMPLE # 3952

ANALYSIS	CLAIMED	FOUND	
NITROGEN	11%	11.4%	
PHOSPHATE	52%	52.5%	

MONOAMMONIUM PHOSPHATE — SAMPLED IN GERALDINE — SAMPLE # 3961

ANALYSIS	CLAIMED	FOUND	
NITROGEN	11	11.6	
PHOSPHORUS	52	51.9	

MONOAMMONIUM PHOSPHATE — SAMPLED IN FAIRVIEW — SAMPLE # 4367

ANALYSIS	CLAIMED	FOUND	
NITROGEN	11%	10.9%	
PHOSPHATE	52%	50.7%	*

MANUFACTURER

CO-OP SERVICE CENTER
P.O.BOX 80363
BILLINGS,MT 59108

BLENDED FERTILIZER — SAMPLED IN BILLINGS — SAMPLE # 3796

ANALYSIS	CLAIMED	FOUND	
NITROGEN	26	26.7	
PHOSPHORUS	23	21.9	*

BLENDED FERTILIZER — SAMPLED IN BILLINGS — SAMPLE # 3872

ANALYSIS	CLAIMED	FOUND
NITROGEN	36.7%	36.7%
PHOSPHATE	6.9%	7.1%
POTASH	6.7%	7.3%

PLANT FOOD — SAMPLED IN BILLINGS — SAMPLE # 3855

ANALYSIS	CLAIMED	FOUND	
NITROGEN	16%	14.9%	*
PHOSPHATE	16%	15.0%	*
POTASH	16%	19.6%	
SULFUR	4%	6.7%	

PLANT FOOD — SAMPLED IN BILLINGS — SAMPLE # 3856

ANALYSIS	CLAIMED	FOUND
NITROGEN	24%	24.1%
PHOSPHATE	8%	8.6%
POTASH	8%	8.4%

MANUFACTURER

COMINCO AMERICAN INC
P.O.BOX 3087
SPOKANE,WA 99220

AMMONIUM NITRATE — SAMPLED IN FALLON — SAMPLE # 4387

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.0%

AMMONIUM PHOSPHATE- SULFATE — SAMPLED IN KALISPELL — SAMPLE # 4325

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.2%
PHOSPHATE	20%	19.9%
SULFUR	14%	15.2%

AMMONIUM SULFATE — SAMPLED IN KALISPELL — SAMPLE # 4003

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	20.9%
SULFUR	24%	24.7%

AMMONIUM SULFATE — SAMPLED IN KALISPELL — SAMPLE # 4004

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	21.0%
SULFUR	24%	24.7%

AMMONIUM SULFATE — SAMPLED IN KALISPELL — SAMPLE # 4323

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	21.0%
SULFUR	24%	24.7%

COMINCO AMERICAN INC - SPOKANE CONTINUED

MONOAMMONIUM PHOSPHATE — SAMPLED IN KALISPELL — SAMPLE # 4001

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.6%
PHOSPHATE	52%	52.0%

POTASH — SAMPLED IN KALISPELL — SAMPLE # 4324

ANALYSIS	CLAIMED	FOUND
POTASH	60%	59.5%

MANUFACTURER

CONAGRA CHEMICAL FERTILIZER CO
P.O.BOX 176
DUTTON,MT 59433

AMMONIUM NITRATE — SAMPLED IN BELGRADE — SAMPLE # 3205

ANALYSIS	CLAIMED	FOUND
NITROGEN	34.0	34.4

AMMONIUM NITRATE — SAMPLED IN KALISPELL — SAMPLE # 4006

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.0%

AMMONIUM SULPHATE — SAMPLED IN BELGRADE — SAMPLE # 3201

ANALYSIS	CLAIMED	FOUND
NITROGEN	20.5	20.5
SULPHUR	24.0	24.6

AMMONIUM SULPHATE — SAMPLED IN GREAT FALLS — SAMPLE # 3954

ANALYSIS	CLAIMED	FOUND
NITROGEN	20.5	20.6
SULPHUR	24.0	24.2

DIAMMONIUM PHOSPHATE — SAMPLED IN SIDNEY — SAMPLE # 1792

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	46.5%

MONOAMMONIUM PHOSPHATE — SAMPLED IN HAVRE — SAMPLE # 3966

ANALYSIS	CLAIMED	FOUND
NITROGEN	12.0	12.0
PHOSPHORUS	51.0	51.9

CONAGRA CHEMICAL FERTILIZER CO - DUTTON CONTINUED

MONOAMMONIUM PHOSPHATE — SAMPLED IN BIG SANDY — SAMPLE # 3969

ANALYSIS	CLAIMED	FOUND
NITROGEN	11.0	11.8
PHOSPHORUS	52.0	52.0

MONOAMMONIUM PHOSPHATE — SAMPLED IN GREAT FALLS — SAMPLE # 3975

ANALYSIS	CLAIMED	FOUND
NITROGEN	12%	12.0%
PHOSPHATE	51%	51.2%

MANUFACTURER

DOMESTIC FERTILIZER INC
1750 17th ST.
PARIS,KY 40361

TREE FOOD STAKES — SAMPLED IN MONTANA — SAMPLE # 4099

ANALYSIS	CLAIMED	FOUND
NITROGEN	15%	17.8%
PHOSPHATE	7%	7.7%
POTASH	6%	7.3%

MANUFACTURER

EQUITY SUPPLY CO
P.O.BOX 579
KALISPELL,MT 59901

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4007

ANALYSIS	CLAIMED	FOUND
NITROGEN	5.5%	5.9%
PHOSPHATE	26%	26.1%
POTASH	30%	31.0%

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4008

ANALYSIS	CLAIMED	FOUND
NITROGEN	5.5%	6.3%
PHOSPHATE	26%	28.1%
POTASH	30%	28.0%

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4009

ANALYSIS	CLAIMED	FOUND
NITROGEN	5.5%	6.3%
PHOSPHORUS	26%	28.4%
POTASH	30%	27.1% *

EQUITY SUPPLY CO - KALISPELL CONTINUED

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4010

ANALYSIS	CLAIMED	FOUND	
NITROGEN	22%	23.4%	
PHOSPHORUS	8.5%	7.2%	*
POTASH	8.5%	6.6%	*
SULFUR	6.4%	7.6%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4338

ANALYSIS	CLAIMED	FOUND	
NITROGEN	12.8%	16.5%	
PHOSPHATE	16.9%	7.2%	*
POTASH	12.7%	17.3%	
SULFUR	12.8%	8.3%	*

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4340

ANALYSIS	CLAIMED	FOUND
NITROGEN	25%	24.9%
PHOSPHATE	10%	10.8%
SULFUR	7%	8.2%

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4341

ANALYSIS	CLAIMED	FOUND
NITROGEN	29.2%	30.5%
SULFUR	8.8%	9.0%

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4343

ANALYSIS	CLAIMED	FOUND	
NITROGEN	7.5%	8.1%	
PHOSPHATE	34.8%	36.3%	
POTASH	14.9%	13.3%	*
SULFUR	7.2%	8.7%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4344

ANALYSIS	CLAIMED	FOUND	
NITROGEN	10.5%	12.1%	
PHOSPHATE	14.5%	11.4%	*
POTASH	21.8%	20.5%	*
SULFUR	8.7%	11.4%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4345

ANALYSIS	CLAIMED	FOUND
NITROGEN	20%	21.2%
PHOSPHATE	8%	8.4%
POTASH	12%	11.1%
SULFUR	5.6%	6.4%

EQUITY SUPPLY CO - KALISPELL CONTINUED

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4346

ANALYSIS	CLAIMED	FOUND	
NITROGEN	7.8%	8.3%	
PHOSPHATE	36.7%	36.6%	
POTASH	12.2%	11.5%	
SULFUR	8.2%	10.9%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4347

ANALYSIS	CLAIMED	FOUND	
NITROGEN	16.8%	17.6%	
PHOSPHATE	12.6%	12.9%	
POTASH	12.6%	11.3%	
SULFUR	8.4%	9.8%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4349

ANALYSIS	CLAIMED	FOUND	
NITROGEN	22%	21.3%	
PHOSPHATE	11%	8.4%	*
POTASH	7.3%	6.6%	*
SULFUR	5.5%	10.7%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 4350

ANALYSIS	CLAIMED	FOUND	
NITROGEN	22%	23.7%	
PHOSPHATE	11%	11.3%	
POTASH	7.3%	6.6%	*
SULFUR	5.5%	4.6%	*

MANUFACTURER

FARMERS UNION ASSOCIATION
P.O.BOX 385
HARDIN,MT 59034

BLENDED FERTILIZER — SAMPLED IN HARDIN — SAMPLE # 3870

ANALYSIS	CLAIMED	FOUND	
NITROGEN	31.9%	32.9%	
PHOSPHATE	19.3%	17.6%	*
POTASH	3.6%	3.4%	

BLENDED FERTILIZER — SAMPLED IN HARDIN — SAMPLE # 3871

ANALYSIS	CLAIMED	FOUND	
NITROGEN	24.2%	24.9%	
PHOSPHATE	18.2%	16.7%	*
POTASH	14%	14.8%	

MANUFACTURER

FARMERS UNION OIL CO
HWY 2 EAST; P.O.BOX 995
WOLF POINT,MT 59201

BLENDED FERTILIZER — SAMPLED IN WOLF POINT — SAMPLE # 4081

ANALYSIS	CLAIMED	FOUND	
NITROGEN	28%	28.9%	
PHOSPHATE	28%	28.2%	

BLENDED FERTILIZER — SAMPLED IN WOLF POINT — SAMPLE # 4082

ANALYSIS	CLAIMED	FOUND	
NITROGEN	28%	26.5%	*
PHOSPHATE	28%	32.4%	

LAWN & GARDEN MIX — SAMPLED IN WOLF POINT — SAMPLE # 4086

ANALYSIS	CLAIMED	FOUND	
NITROGEN	20%	21.1%	
PHOSPHATE	20%	20.0%	
POTASH	9%	9.3%	
SULFUR	9%	7.0%	*

MANUFACTURER

FARMERS UNION SOIL SERVICE
P.O.BOX 2483
GREAT FALLS,MT 59403

BLENDED FERTILIZER — SAMPLED IN GREAT FALLS — SAMPLE # 3945

ANALYSIS	CLAIMED	FOUND
NITROGEN	33%	33.3%
PHOSPHATE	4.8%	4.9%
POTASH	7.4%	8.6%
SULFUR	4.6%	4.6%

BLENDED FERTILIZER — SAMPLED IN GREAT FALLS — SAMPLE # 3948

ANALYSIS	CLAIMED	FOUND
NITROGEN	37.9%	37.9%
PHOSPHATE	8.4%	8.4%
POTASH	4%	4.8%

BLENDED FERTILIZER — SAMPLED IN GREAT FALLS — SAMPLE # 3949

ANALYSIS	CLAIMED	FOUND	
NITROGEN	27.6%	27.6%	
PHOSPHATE	18.4%	17.4%	*
POTASH	9.3%	10.4%	

MANUFACTURER

FARMERS UNION TRADING CO
P.O.BOX 67
TERRY,MT 59349

BLENDED FERTILIZER — SAMPLED IN TERRY — SAMPLE # 4507

ANALYSIS	CLAIMED	FOUND	
NITROGEN	20.1%	22.6%	
PHOSPHATE	23.5%	23.5%	
POTASH	12.2%	13.5%	
ZINC	2%	0.49%	*

MANUFACTURER

G & G FERTILIZER
P.O.BOX 23
FLAXVILLE,MT 59222

AMMONIUM POLYPHOSPHATE — SAMPLED IN FRAZER — SAMPLE # 4092

ANALYSIS	CLAIMED	FOUND
NITROGEN	10%	10.3%
PHOSPHATE	34%	34.1%

MANUFACTURER

HARVEST STATES COOP
P.O.BOX 36
FALLON,MT 59326

BLENDED FERTILIZER — SAMPLED IN FALLON — SAMPLE # 4508

ANALYSIS	CLAIMED	FOUND	
NITROGEN	23.5%	23.4%	
PHOSPHATE	15%	13.9%	*
POTASH	9.4%	13.0%	

MANUFACTURER

HI LINE FERTILIZER INC
P.O.BOX 228
HINGHAM,MT 59528

AMMONIUM POLYPHOSPHATE — SAMPLED IN GERALDINE — SAMPLE # 3964

ANALYSIS	CLAIMED	FOUND
NITROGEN	10.0	10.6
PHOSPHORUS	34.0	34.1

MANUFACTURER

HYPONEX CORP
14310 SCOTTSLAWN ROAD
MARYSVILLE,OH 43041

LIQUID PLANT FOOD- HOUSE PLANT FORMULA — SAMPLED IN MONTANA — SAMPLE # 4094

ANALYSIS	CLAIMED	FOUND
NITROGEN	5%	5.3%
PHOSPHATE	10%	10.4%
POTASH	5%	5.3%

MANUFACTURER

HYSHAM COMMUNITY ELEVATOR
P.O.BOX 389
HYSHAM,MT 59038

AMMONIUM NITRATE — SAMPLED IN HYSHAM — SAMPLE # 3848

ANALYSIS	CLAIMED	FOUND
NITROGEN	34	34.2

MANUFACTURER

J.R. SIMPLOT SOIL SERVICE
P.O. BOX 20363
BILLINGS,MT 59104

BLENDED FERTILIZER — SAMPLED IN BILLINGS — SAMPLE # 3815

ANALYSIS	CLAIMED	FOUND
NITROGEN	25.8	26.4
PHOSPHORUS	16.5	16.8
POTASH	4.2	4.6

BLENDED FERTILIZER — SAMPLED IN BILLINGS — SAMPLE # 3865

ANALYSIS	CLAIMED	FOUND
NITROGEN	25.4	25.9
PHOSPHORUS	25.0	25.4

MANUFACTURER

J.R.SIMPLOT CO
P.O.BOX 912
POCATELLO,ID 83204

AMMONIUM PHOSPHATE-SULFATE — SAMPLED IN BILLINGS — SAMPLE # 3814

ANALYSIS	CLAIMED	FOUND
NITROGEN	16	16.0
PHOSPHORUS	20	21.1

J.R.SIMPLOT CO - POCATELLO CONTINUED

AMMONIUM PHOSPHATE-SULFATE — SAMPLED IN HYSHAM — SAMPLE # 4203

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.9%
PHOSPHATE	20%	19.9%
SULFUR	14%	14.3%

DIAMMONIUM PHOSPHATE — SAMPLED IN BELGRADE — SAMPLE # 3203

ANALYSIS	CLAIMED	FOUND
NITROGEN	18.0	18.1
PHOSPHORUS	46.0	47.2

DIAMMONIUM PHOSPHATE — SAMPLED IN BILLINGS — SAMPLE # 3873

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.4%
PHOSPHATE	46%	47.3%

DIAMMONIUM PHOSPHATE — SAMPLED IN FAIRFIELD — SAMPLE # 3916

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	17.3%
PHOSPHATE	46%	46.0%

DIAMMONIUM PHOSPHATE — SAMPLED IN GREAT FALLS — SAMPLE # 3956

ANALYSIS	CLAIMED	FOUND
NITROGEN	18	18.1
PHOSPHORUS	46	46.6

DIAMMONIUM PHOSPHATE — SAMPLED IN PEERLESS — SAMPLE # 4069

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	46.4%

DIAMMONIUM PHOSPHATE — SAMPLED IN ISMAY — SAMPLE # 4381

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	19.1%
PHOSPHATE	46%	46.8%

DIAMMONIUM PHOSPHATE — SAMPLED IN SIDNEY — SAMPLE # 4400

ANALYSIS	CLAIMED	FOUND
NITROGEN	18	18.0
PHOSPHORUS	46	47.4

DIAMMONIUM PHOSPHATE — SAMPLED IN WIBAUX — SAMPLE # 4503

ANALYSIS	CLAIMED	FOUND
NITROGEN	18.0	17.9
PHOSPHORUS	46.0	47.0

J.R.SIMPLOT CO - POCATELLO CONTINUED

MONOAMMONIUM PHOSPHATE — SAMPLED IN FAIRFIELD — SAMPLE # 3917

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	12.4%
PHOSPHATE	52%	52.0%

MONOAMMONIUM PHOSPHATE — SAMPLED IN GREAT FALLS — SAMPLE # 3955

ANALYSIS	CLAIMED	FOUND
NITROGEN	11	11.5
PHOSPHORUS	52	52.7

MONOAMMONIUM PHOSPHATE — SAMPLED IN GERALDINE — SAMPLE # 3963

ANALYSIS	CLAIMED	FOUND
NITROGEN	11.0	11.5
PHOSPHORUS	52.0	52.6

TRIPLE SUPER PHOSPHATE — SAMPLED IN CHOTEAU — SAMPLE # 3929

ANALYSIS	CLAIMED	FOUND
PHOSPHATE	45%	44.9%

UAN SOLUTION — SAMPLED IN CIRCLE — SAMPLE # 4386

ANALYSIS	CLAIMED	FOUND
NITROGEN	28%	29.3%

UREA — SAMPLED IN GLENDIVE — SAMPLE # 4373

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.0%

MANUFACTURER

K & W FEED and GRAIN
P.O.BOX 1389
BIG TIMBER,MT 59011

LAWN & GARDEN FERTILIZER — SAMPLED IN BIG TIMBER — SAMPLE # 3846

ANALYSIS	CLAIMED	FOUND	
NITROGEN	25%	23.7%	*
PHOSPHATE	10%	9.4%	
POTASH	10%	8.6%	*
SULFUR	5%	3.9%	*

MANUFACTURER

KALIUM CHEM CORP- DIV P.P.G.
ONE P.P.G. PLACE- 34 SOUTH
PITTSBURGH,PA 15272

POTASH — SAMPLED IN MILES CITY — SAMPLE # 4367

ANALYSIS	CLAIMED	FOUND
POTASH	62%	61.9%

POTASH — SAMPLED IN PEERLESS — SAMPLE # 4431

ANALYSIS	CLAIMED	FOUND
POTASH	62.0	62.0

MANUFACTURER

MON-KOTA INC
P.O.BOX 487
FAIRVIEW,MT 59221

BLENDED FERTILIZER — SAMPLED IN FAIRVIEW — SAMPLE # 4389

ANALYSIS	CLAIMED	FOUND
NITROGEN	9%	8.9%
PHOSPHATE	27%	27.1%

LIQUID FERTILIZER — SAMPLED IN FAIRVIEW — SAMPLE # 4502

ANALYSIS	CLAIMED	FOUND	
NITROGEN	9%	8.9%	
PHOSPHATE	27%	25.3%	*

LIQUID POTASH — SAMPLED IN FAIRVIEW — SAMPLE # 4501

ANALYSIS	CLAIMED	FOUND
POTASH	14.0	13.9

MANUFACTURER

NORTHERN AG SERVICE
P.O.BOX 1398
MALTA,MT 59538

BLENDED FERTILIZER — SAMPLED IN MALTA — SAMPLE # 4421

ANALYSIS	CLAIMED	FOUND	
NITROGEN	34.0	34.7	
PHOSPHORUS	18.0	17.2	
SULPHUR	2.0	0.5	*

NORTHERN AG SERVICE - MALTA CONTINUED

BLENDED LIQUID FERTILIZER — SAMPLED IN MALTA — SAMPLE # 4078

ANALYSIS	CLAIMED	FOUND
NITROGEN	20%	19.9%
PHOSPHATE	10%	10.1%

MANUFACTURER

NU-WEST IND. INC
8400 E.PRENTICE AVE, STE 1320
ENGLEWOOD,CO 80111

DIAMMONIUM PHOSPHATE — SAMPLED IN WOLF POINT — SAMPLE # 1787

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	17.9%
PHOSPHATE	46%	46.6%

DIAMMONIUM PHOSPHATE — SAMPLED IN BILLINGS — SAMPLE # 3612

ANALYSIS	CLAIMED	FOUND
NITROGEN	18	18.0
PHOSPHORUS	46	46.3

DIAMMONIUM PHOSPHATE — SAMPLED IN CHINOOK — SAMPLE # 4411

ANALYSIS	CLAIMED	FOUND
NITROGEN	18.0	17.9
PHOSPHORUS	46.0	47.4

MONOAMMONIUM PHOSPHATE — SAMPLED IN WOLF POINT — SAMPLE # 1789

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.2%
PHOSPHATE	52%	52.0%

MONOAMMONIUM PHOSPHATE — SAMPLED IN FORT BENTON — SAMPLE # 3965

ANALYSIS	CLAIMED	FOUND
NITROGEN	11.0	11.2
PHOSPHORUS	52.0	52.4

MONOAMMONIUM PHOSPHATE — SAMPLED IN PEERLESS — SAMPLE # 4433

ANALYSIS	CLAIMED	FOUND
NITROGEN	11.0	11.0
PHOSPHORUS	52.0	52.0

MANUFACTURER

O.M.SCOTT & SONS CO
14310 SCOTTSLAWN
MARYSVILLE,OH 43041

TURF BUILDER — SAMPLED IN MONTANA — SAMPLE # 3861

ANALYSIS	CLAIMED	FOUND
NITROGEN	29%	29.4%
PHOSPHATE	3%	2.9%
POTASH	4%	3.9%

MANUFACTURER

PAX COMPANY
580 WEST 13TH SOUTH
SALT LAKE CITY,UT 84115

MOUNTAIN GREEN LAWN FOOD — SAMPLED IN MONTANA — SAMPLE # 3858

ANALYSIS	CLAIMED	FOUND
NITROGEN	25%	24.9%
PHOSPHATE	5%	5.2%
POTASH	5%	5.1%
IRON	0.1%	0.1%

MANUFACTURER

POTASH CORP OF SASKATCHEWAN
122 1st AVE. S. SUITE 500
SASKATOON,SASK S7K 7G3
CANADA

POTASH — SAMPLED IN BELGRADE — SAMPLE # 3202

ANALYSIS	CLAIMED	FOUND
POTASH	60.0	62.0

POTASH — SAMPLED IN FAIRFIELD — SAMPLE # 3915

ANALYSIS	CLAIMED	FOUND
POTASH	60%	60.6%

MANUFACTURER

QUAD FIVE
P.O.BOX 69
RYEGATE,MT 59074

RESURGE ORGANIC FERTILIZER — SAMPLED IN ROUNDUP — SAMPLE # 3895

ANALYSIS	CLAIMED	FOUND	
NITROGEN	7%	7.0%	
PHOSPHATE	7%	3.4%	*
POTASH	7%	9.0%	

MANUFACTURER

ROSS DANIELS INC
1720 FULLER ROAD WEST
DES MOINES,IA 50265

ROSS ROOT FEEDER CARTRIDGES — SAMPLED IN MONTANA — SAMPLE # 4100

ANALYSIS	CLAIMED	FOUND
NITROGEN	15%	16.9%
PHOSPHATE	25%	28.4%
POTASH	10%	13.2%

MANUFACTURER

SHERRITT FERTILIZER INC
7017 N.E.HIGHWAY 99, SUITE 106
VANCOUVER,WA 98665

AMMONIUM SULFATE — SAMPLED IN PEERLESS — SAMPLE # 4070

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	20.9%
SULFUR	24%	24.4%

UAN SOLUTION — SAMPLED IN CONRAD — SAMPLE # 3947

ANALYSIS	CLAIMED	FOUND
NITROGEN	32%	32.8%

MANUFACTURER

SHOCO FERTILIZER
P.O.BOX 654
GREAT FALLS,MT 59403

BLENDED LIQUID FERTILIZER — SAMPLED IN GREAT FALLS — SAMPLE # 4052

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	21.2%
PHOSPHATE	10%	9.9%
SULFUR	3%	3.1%

MANUFACTURER

SODASPRINGS PHOSPHATE
P.O. BOX 578
SODASPRINGS,ID 83276

FERTILIZER — SAMPLED IN HAVRE — SAMPLE # 3967

ANALYSIS	CLAIMED	FOUND	
PHOSPHORUS	18.0	13.8	*
POTASH	5.0	6.4	
SULPHUR	5.0	6.0	
ZINC	5.0	5.1	

MANUFACTURER

SUPER GRO OF IOWA
P.O.BOX 126
APLINGTON,IA 50604

HAY 5-1-10-6 — SAMPLED IN BAKER — SAMPLE # 4358

ANALYSIS	CLAIMED	FOUND
NITROGEN	5%	5.1%
PHOSPHATE	1%	4.1%
POTASH	10%	10.6%
SULFUR	6%	8.2%

NATURAL FERTILIZER — SAMPLED IN MONTANA — SAMPLE # 4058

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	15.0%
PHOSPHATE	7%	8.8
POTASH	4%	5.9%
SULFUR	16%	16.7%
ZINC	NO CLAIM	0.54%

MANUFACTURER

THE CHAS. H. LILLY CO
7737 N.E. KILLINGSWORTH
PORTLAND,OR 97218

REGAL GREEN LAWN FOOD — SAMPLED IN MONTANA — SAMPLE # 3859

ANALYSIS	CLAIMED	FOUND
NITROGEN	22%	20.5%
PHOSPHATE	4%	4.8%
POTASH	4%	3.8%
SULFUR	12%	14.6%
IRON	5%	6.2%
CALCIUM	0.6%	0.7%

ROSE and FLOWER FOOD — SAMPLED IN MONTANA — SAMPLE # 4098

ANALYSIS	CLAIMED	FOUND	
NITROGEN	5%	3.7%	*
PHOSPHATE	8%	3.1%	*
POTASH	8%	9.7%	
SULFUR	4%	4.0%	

MANUFACTURER

TRI COUNTY COOP
P.O.BOX 288
HYSHAM,MT 59038

BLENDED FERTILIZER — SAMPLED IN HYSHAM — SAMPLE # 4202

ANALYSIS	CLAIMED	FOUND
NITROGEN	11.9%	12.1%
PHOSPHATE	30.3%	30.9%

TRI COUNTY COOP - HYSHAM CONTINUED

BLENDED FERTILIZER CONTINUED

ANALYSIS	CLAIMED	FOUND
POTASH	17.5%	19.6%
SULFUR	4.5%	5.4%

MANUFACTURER

VALCO AGRI SERVICE INC
P.O.BOX 129
GLASGOW,MT 59230

BLENDED FERTILIZER — SAMPLED IN GLASGOW — SAMPLE # 4088

ANALYSIS	CLAIMED	FOUND
NITROGEN	23%	29.2%
PHOSPHATE	11%	13.0%
POTASH	8%	9.0%
SULFUR	4%	3.1%

MANUFACTURER

VIGORO INDUSTRIES, INC
P.O.BOX 206
MONROE,WA 98272

ALL-PURPOSE FERTILIZER — SAMPLED IN MONTANA — SAMPLE # 3860

ANALYSIS	CLAIMED	FOUND	
NITROGEN	6%	6.0%	
PHOSPHATE	10%	9.2%	*
POTASH	4%	2.8%	*

DEEP GREEN LAWN FOOD — SAMPLED IN MONTANA — SAMPLE # 3862

ANALYSIS	CLAIMED	FOUND
NITROGEN	23%	24.0%
PHOSPHATE	3%	3.8%
POTASH	6%	6.7%
IRON	1%	1.2%

MANUFACTURER

WEATHERLY CONSUMER PRODUCTS
P.O.BOX 1750
LEXINGTON,KY 40509

LIQUID SUNSPLASH- AFRICAN VIOLET FOOD — SAMPLED IN MONTANA — SAMPLE # 4093

ANALYSIS	CLAIMED	FOUND
NITROGEN	1%	1.7%
PHOSPHATE	3%	3.6%
POTASH	2%	2.1%

MANUFACTURER

WESTLAND SEED & SUPPLY CO
1308 ROUND BUTTE ROAD WEST
RONAN,MT 59864

BLENDED FERTILIZER — SAMPLED IN RONAN — SAMPLE # 4327

ANALYSIS	CLAIMED	FOUND
NITROGEN	20%	20.8%
PHOSPHATE	10%	10.1%
POTASH	10%	10.6%
SULFUR	6.5%	6.5%

BLENDED FERTILIZER — SAMPLED IN RONAN — SAMPLE # 4336

ANALYSIS	CLAIMED	FOUND
NITROGEN	3.5%	4.0%
PHOSPHATE	17.6%	18.8%
POTASH	20.4%	20.9%
SULFUR	6.1%	6.2%

1990 FERTILIZER ANALYSIS BREAKDOWN
FERTILIZER SAMPLING

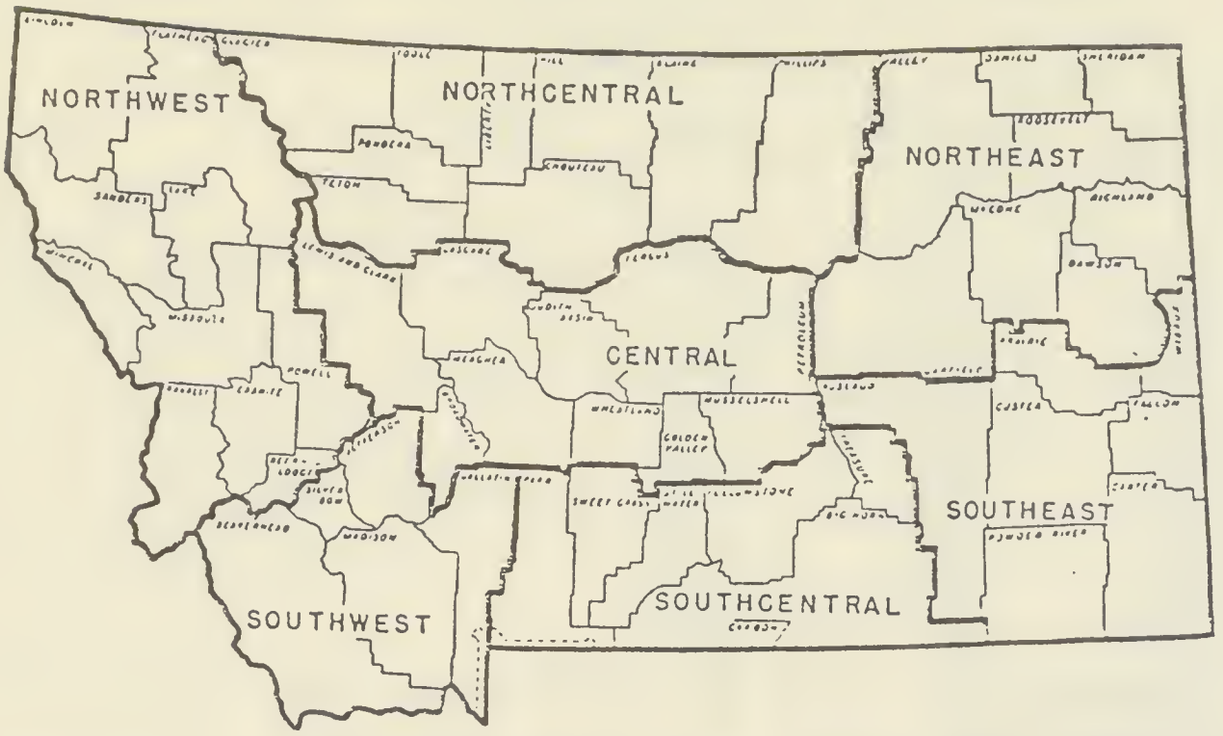
NUTRIENT	# ANALYZED	# DEFICIENT	% DEFICIENT
Nitrogen	142	9	6.3
Phosphate	113	18	15.9
Potash	61	11	18.0
Sulfur	46	6	13.0
Zinc	3	1	33.3
Iron	3	-	-
Calcium	1	-	-
Boron	2	-	-
	371	45	12.1

YEAR	# SAMPLES TAKEN	# SAMPLES DEFICIENT	DEFICIENT
1977	448	32	7.1
1978	533	30	5.6
1979	365	21	5.7
1980	506	27	5.3
1981	428	24	5.1
1982	607	41	6.7
1983	558	50	8.9
1984	379	58	15.3
1985	368	55	14.9
1986	228	43	18.9
1987	175	25	14.3
1988	228	43	7.9
1989	128	17	13.3
1990	154	31	20.1

FERTILIZER TONNAGE

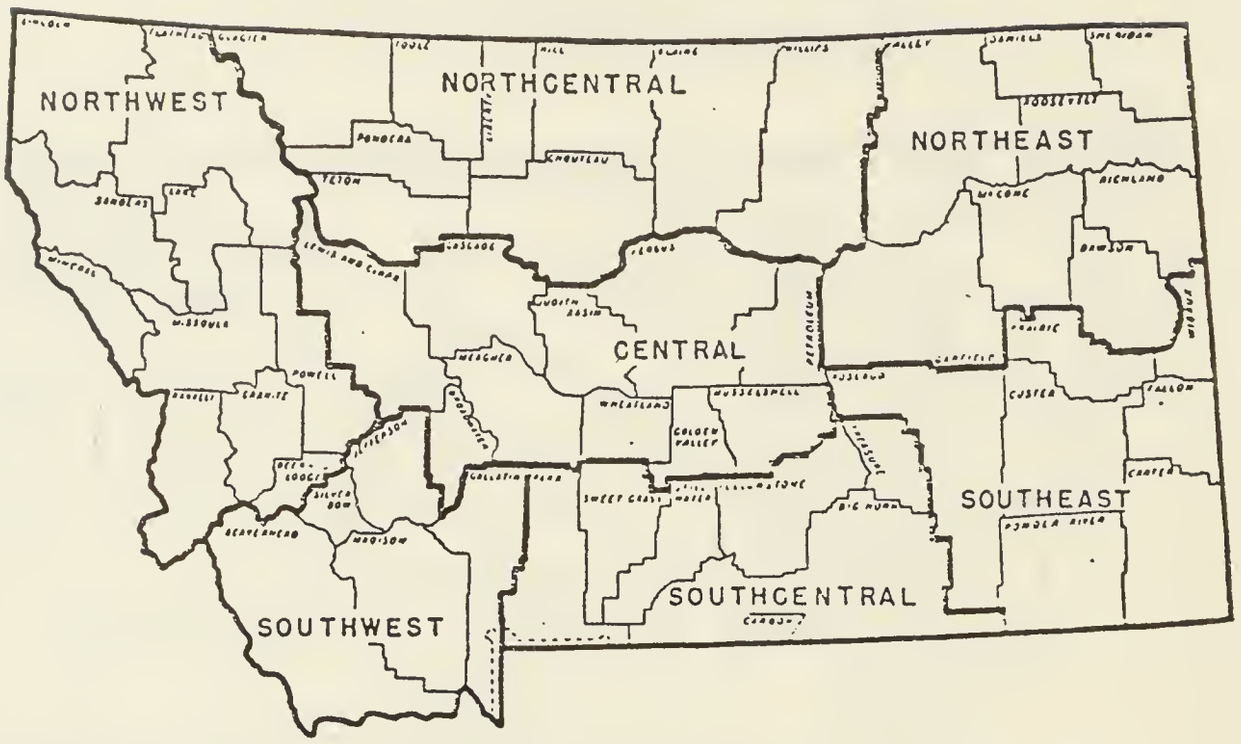
YEAR	TONNAGE
1972	226,939
1973	268,061
1974	219,197
1975	170,324
1976	283,925
1977	259,211
1978	301,487
1979	324,838
1980	295,958
1981	363,295
1982	384,387
1983	447,407
1984	406,567
1985	325,887
1986	337,626
1987	393,505
1988	279,616
1989	395,033
1990	387,583

FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
By Crop Reporting Districts
January - June 1990



STATEWIDE TOTAL	SOUTH WEST	NORTH WEST	SOUTH CENTRAL	CENTRAL	NORTH CENTRAL	SOUTH EAST	NORTH EAST	TOTALS
Anhydrous Ammonia	463	1194	408	7148	9313	353	300	19179
Ammonium Nitrate	7347	4109	11993	3938	6933	489	156	34965
Ammonium Sulfate	1491	1437	575	462	2355	124	369	6813
Urea	2184	507	3479	15336	19377	3898	6021	50802
Ammonium Thiosulfate	-	30	-	114	393	4	55	596
Nitrogen Sols. 28%	-	252	89	332	901	-	1269	2843
Nitrogen Sols 32%	669	52	162	556	2884	-	-	4323
Triple Super Phosphate	136	75	126	1063	118	26	47	1591
Phosphoric Acid	-	-	-	89	1677	90	-	1856
DAP	1381	394	6773	2901	4736	2487	7555	26227
MAP	4926	1798	4810	7468	24339	1277	2898	47516
APS	4295	2986	1268	1664	696	13	201	11123
Ammonium Polyphosphate	3	13	12	429	2458	-	211	3126
Potash	1529	1289	2209	2633	5321	986	1523	15490
Sulfur	2	30	89	20	279	7	23	450
Blended fertilizer	212	515	341	3099	2528	178	39	6912
Micro Nutrients	40	30	87	56	28	13	27	281
Gypsum	-	2	-	-	-	7	19	28
Lime	-	162	-	-	-	-	-	162
TOTAL	24678	14875	32421	47308	84336	9952	20713	234283

FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
by Crop Reporting Districts
July-December 1990



STATEWIDE TOTAL	SOUTH WEST	NORTH WEST	SOUTH CENTRAL	CENTRAL	NORTH CENTRAL	SOUTH EAST	NORTH EAST	TOTALS
Anhydrous Ammonia	334	19	1259	6845	17085	183	38	25763
Ammonium Nitrate	3156	523	5120	1306	1941	376	525	12946
Ammonium Sulfate	593	631	250	330	220	16	224	2264
Urea	2615	136	4049	8603	9824	1372	4578	31176
Ammonium Thiosulfate	11	0	0	0	337	0	0	348
Nitrogen Sols. 32%	0	820	96	223	3055	0	0	4254
Nitrogen Sols 28%	0	24	551	147	282	30	105	1153
Phosphorus Materials	0	28	386	475	264	0	0	724
Phosphoric Acid	0	0	126	256	1056	0	0	1437
Potash Material	539	552	870	1388	1697	212	1018	6201
Sulfur	8	17	77	0	82	3	3	190
Sulfuric Acid	0	0	95	0	0	0	0	95
DAP 18-46-0	708	97	5476	2212	1668	638	2561	13508
MAP 11-52-0	2550	948	3057	7739	14613	829	2900	36718
APS 16-20-0	1167	328	841	845	675	2	205	4062
10-34-0	11	0	22	289	1818	0	43	2183
2-1-0 Ratio	0	0	0	492	1868	0	0	2360
1-1-0 Ratio	0	0	2	1124	1030	0	0	2156
1-1-1 Ratio	1	0	1	240	350	0	214	806
Other Blend	3	316	164	475	530	8	3	1500
Micronutrients	9	44	54	5	0	2	15	129
Gympsum/Lime	0	59	28	0	0	3	13	103
Compost	0	922	900	900	0	0	0	2722
TOTALS	11779	5465	23421	33895	62623	3673	12445	153300

MONTANA DEPARIMENT OF AGRICULTURE
FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
FOR THE YEAR
1990

MATERIAL	JAN-JUNE	JULY-DEC	TOTAL
Anhydrous Ammonia	19179	25763	44942
Ammonium Nitrate	34965	12946	47911
Ammonium Sulfate	6813	2264	9077
Urea	50802	31176	81978
Ammonium Thiosulfate	596	348	944
Nitrogen Sols. 32%	2843	4254	7097
Nitrogen Sols. 28%	4323	1153	5476
Phosphorus Materials	1591	724	2315
Phosphoric Acid	1856	1437	3293
Potash Material	15490	6201	21691
Sulfur	450	190	640
Sulfuric Acid	-	95	95
DAP 18-46-0	26227	13508	39735
MAP 11-52-0	47516	36718	84234
APS 16-20-0	11123	4062	15185
10-34-0	3126	2183	5309
2-1-0 Ratios	-	2360	2360
1-1-0 Ratios	-	2156	2156
1-1-0 Ratios	-	806	806
Other Blends	6912	1500	8412
Micronutrients	281	129	410
Gypsum/Lime	190	103	293
Compost	-	2722	2722
TOTAL	234283	153300	387583
TOTAL NITROGEN	66393	49373	115766
TOTAL P205	41794	28168	69962
TOTAL K20	9294	3765	13059

MONTANA DEPARTMENT OF AGRICULTURE
PLANT INDUSTRY DIVISION
AGRICULTURE/LIVESTOCK BLDG.
CAPITOL STATION
HELENA, MT 59620

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